

TABLE OF CONTENTS

	Article	Page
DEFINITIONS.....		xv
CHAPTER 1. ORGANIZATION AND COMMAND.....		1-1
A. Mission, policy, doctrine.....		1-1
The mission.....	1000	1-1
The policy.....	1010	1-1
The requirements.....	1020	1-1
Doctrine.....	1030	1-2
B. Relationship of communications to command.....		1-3
General.....	1100	1-3
Principal responsibilities of command.....	1110	1-3
Responsibilities of flag and commanding officers afloat.....	1120	1-4
Responsibilities of commanders ashore.....	1130	1-4
C. Organization of the naval communication service.....		1-5
General.....	1200	1-5
Mobilization of communications.....	1210	1-5
D. Special arrangements.....		1-7
Foreign men-of-war, and U. S. men-of-war in foreign ports.....	1300	1-7
Commercial facilities.....	1310	1-7
Press and censorship of press messages.....	1320	1-7
CHAPTER 2. MESSAGES AND DRAFTING.....		2-1
A. Preparation of messages.....		2-1
Responsibilities of the originator.....	2000	2-1
Precedence.....	2010	2-2
Plate 1-2.....		2-4
Addressees.....	2020	2-5
Text of a message.....	2030	2-5
Security classification.....	2040	2-7
Acknowledgments.....	2050	2-8
Replies, annulments, corrections, and verifications.....	2060	2-9
B. Forms and parts of messages.....		2-11
Basic forms.....	2100	2-11
Naval forms.....	2110	2-11
Plate 2-2.....		2-12
Call signs.....	2120	2-14
Encryption of call signs.....	2130	2-15
Transmission instructions.....	2140	2-16
The address.....	2150	2-17
Message instructions.....	2160	2-17
Message ending.....	2170	2-17
C. Classes of messages.....		2-19
Administrative categories.....	2200	2-19
Rules for acceptance of class E.....	2210	2-20
D. Special reports.....		2-23
Enemy reports.....	2300	2-23
Movement reports.....	2310	2-23
Weather reports.....	2320	2-23

557048°

RECROSS MSG.

(IX)

THE DATE TIME GROUP

1330

2025

CHAPTER 2. MESSAGES AND DRAFTING—Continued.		Article	Page
E. General messages			2-25
Characteristics		2400	2-25
Plate 3-2	faces		2-26
CHAPTER 3. THE FUNCTIONS OF PERSONNEL ASSIGNED TO COMMUNICATION DUTIES.			3-1
A. Responsibilities and duties			3-1
General		3000	3-1
Requirements		3010	3-1
Specific duties		3020	3-2
B. Internal organization			3-9
General		3100	3-9
Basic requirements		3110	3-9
How requirements may be fulfilled		3120	3-9
C. Publications, files, and logs			3-13
Publications		3200	3-13
Logs		3210	3-14
Files		3220	3-16
CHAPTER 4. COMMUNICATION SECURITY			4-1
A. Introduction to security			4-1
Definition and objectives		4000	4-1
Reliability, security, and speed		4010	4-1
Components of security		4020	4-1
Basic responsibilities		4030	4-2
Official censorship		4040	4-2
Personal censorship		4050	4-2
B. Physical security			4-3
Principal factors		4100	4-3
Basic rules		4110	4-3
Destruction		4120	4-3
Methods of destruction		4130	4-5
Make-up of coding boards		4140	4-5
Use of cryptographic aids		4150	4-5
Handling of classified messages		4160	4-5
Translation of incoming messages		4170	4-6
Copies of outgoing messages		4180	4-6
Office and code room security		4190	4-6
C. Encryption and Decryption			4-7
Principal factors in security		4200	4-7
U. S. Navy cryptographic plan		4210	4-7
Basic instructions		4220	4-8
Special rules for cipher machines		4230	4-9
Special rules for flat strip		4240	4-9
Length of messages		4250	4-9
Padding and nulls		4260	4-10
Paraphrasing		4270	4-10
Reencryption		4280	4-11
Check decryption		4290	4-11
Garbles		4310	4-12
D. Transmission security			4-17
Rise of radio intelligence		4400	4-17
Defensive measures against traffic analysis		4410	4-17

CHAPTER 4. COMMUNICATION SECURITY—Continued.

D. Transmission security—Continued.

	<i>Article</i>	<i>Page</i>
Defensive measures against interception and direction finding	4420	4-18
Circuit discipline	4430	4-18
Radiotelephone security	4440	4-19
Wire transmissions	4450	4-19
U. S. radio services	4460	4-21
Radio deception	4470	4-21
Visual transmissions	4480	4-22

CHAPTER 5. SYSTEMS AND METHODS FOR THE TRANSMISSION OF MESSAGES

A. General

Principal systems available	5000	5-1
Plate 1-5		5-2

B. Messenger and mail

Messenger	5100	5-3
Mailgram	5110	5-3

C. Visual, sound, and wire

Visual systems and methods	5200	5-5
Sound	5210	5-6
Wire	5220	5-6

D. Radio systems and methods

General	5300	5-7
Principal methods	5310	5-7
The receipt (R) method	5320	5-7
The broadcast (F) method	5330	5-8
The intercept (I) method	5340	5-9
The basegram method	5350	5-9

CHAPTER 6. RADIO

A. General

Fleet communications	6000	6-1
Ship radio communications	6010	6-1
Radio silence	6020	6-1
Replies from ships at sea	6030	6-2
Shore radio communications	6040	6-2
Aircraft communications	6050	6-2
Communications with merchant ships	6060	6-2
International distress and calling frequency	6070	6-3
Authentication	6080	6-4
Radio watch-keeping	6090	6-4

B. Introduction to procedure

Reasons, basis, and use	6100	6-5
Operating rules and instructions	6110	6-7
Use of serial numbers	6130	6-10

C. Radiotelegraph procedure

Prosigns	6200	6-11
Description and use of prosigns	6210	6-12
Message address	6250	6-21
Precedence prosigns	6260	6-23
Counting of groups	6270	6-24
Calling and answering	6280	6-25

CHAPTER 6. RADIO—Continued.

C. Radiotelegraph procedure—Continued.

	<i>Article</i>	<i>Page</i>
Shore radio station and indefinite call signs	6290	6-27
Repetitions, corrections, verifications, and acknowledgments	6310	6-29
Plaindress, abbreviated form	6320	6-32
The executive method	6330	6-34
F and I methods	6340	6-36
F method by a shore station	6350	6-37
I method by shore stations	6360	6-37
Plate 1-6		6-40
Plate 2-6	faces	6-40
Plate 3-6	faces	6-40
Plate 4-6	faces	6-40

D. Radiotelephone Procedure

Purpose	6400	6-41
Component parts of a message	6410	6-42
Operating rules	6420	6-43
Procedure phrases	6430	6-45
Group working	6440	6-45
Replies, corrections, and acknowledgments	6450	6-47
Executive method	6460	6-48
Additional procedure for airways radio stations and control towers	6470	6-49

E. Radio frequencies and transmitter adjustments

Assignments of frequencies	6500	6-51
Classification of frequency bands	6510	6-51
Naval employment of frequencies	6520	6-51
Skip distance and fading	6530	6-53
Interference to naval circuits	6540	6-53
Frequency adjustments	6550	6-54

CHAPTER 7. VISUAL PROCEDURE

A. Flashing light and semaphore procedure

Introduction	7000	7-1
Calling and answering	7010	7-1
Preamble	7020	7-2
Message address	7030	7-3
Message instructions and message ending	7040	7-3
Identification, verification, and correction	7050	7-3
Special uses of prosigns by visual	7060	7-3

B. Flashing light

General	7100	7-7
Directional flashing light procedure—Examples	7110	7-8
FFFF—No response method	7120	7-13
Nondirectional or all-around procedure	7130	7-14
“Alarm procedure” for enemy reporting	7140	7-14

C. Semaphore

General	7200	7-17
Calling, answering, receipting, repetitions	7210	7-17
Semaphore procedure—Examples	7220	7-18
Plate 1-7		7-21

CHAPTER 7. VISUAL PROCEDURE—Continued.

	Article	Page
D. Flag hoist signalling		7-23
General	7300	7-23
Component parts	7310	7-23
Answering and acknowledging	7320	7-24
Relaying	7330	7-24
Executing	7340	7-25
Exchanging calls	7350	7-25
Flag hoist examples	7360	7-27
Plate 2-7	faces	7-30
Plate 3-7	faces	7-30
E. Miscellaneous		7-31
The chain of visual responsibility	7400	7-31
Relaying instructions	7410	7-31
Establishing communication or exchanging calls	7420	7-31
Visual communication duties	7430	7-32
Flags and pennants—Transmitted, written, spoken	7440	7-32
Miscellaneous indicators	7450	7-32
Speed indicators	7460	7-35
Plate 4-7		7-37
Plate 5-7		7-37 7-40

APPENDICES

APPENDIX I. SHORE COMMUNICATION SYSTEM SERVICE PLAN.

II. EXTRACTS FROM BRITISH NAVAL RADIO ORGANIZATION.

III. TRAFFIC INVOLVING TOLLS.

IV. INSTRUCTIONS FOR HANDLING MAIL.

V. AUTHORIZED ABBREVIATIONS.

VI. INSTRUCTIONS FOR AIRCRAFT INCLUDING REPORTS.

VII. JOINT, COMBINED, AND LIMITED COMBINED COMMUNICATION ARRANGEMENTS.

VIII. MERCHANT SHIP COMMUNICATIONS IN WARTIME.

IX. U.S. COAST GUARD COMMUNICATION FACILITIES

